



GRADER SERVICING SCHEDULE

Date:	<i>04.08.24</i>	Serial No:	N9M00457
Unit Number:	<i>LR434</i>	Mechanic:	<i>Robert Arnsby</i>
Rego Number:	<i>XV27TB</i>	Mechanic:	
Service Type:	<i>250 hr</i>	Serviceman:	
Kilometres:		Operator:	
Hours:	<i>6,263</i>	Spotter:	

INSPECTION SCHEDULE

EVERY SERVICE

The following inspections require having the engine running or machine moving. Use of an operator and spotter may be required.

IN CAB

No.	ACTION	CHECKS	S	US	N/A	Initial
1	Inspect	Door latches & seals, smoke bomb cab (if necessary)		<i>X</i>		<i>RA</i>
2	Inspect	Seat belt for damage, fraying & anchor bolt security	<i>X</i>			<i>RA</i>
3	Check	Seat for correct operation, excessive movement, cover & cushion condition	<i>X</i>			<i>RA</i>
4	Check	Windscreen & other glass in the cab for chips or cracks	<i>X</i>			<i>RA</i>
5	Check	Operation of window winders & door handles	<i>X</i>			<i>RA</i>
6	Check	Operation of air conditioner & heater	<i>X</i>			<i>RA</i>
7	Check	Pedal rubbers are on & in good condition	<i>X</i>			<i>RA</i>
8	Check	For breakdown triangles, condition & complete set			<i>X</i>	<i>RA</i>
9	Check	For a first aid kit, in date & complete				
10	Check	Operation of ignition & security of key, instrument cluster, warning alarms, warning indicator lights & horn	<i>X</i>			<i>RA</i>
11	Check	Steering column adjustment & security			<i>X</i>	<i>RA</i>
12	Check	Operation of steering wheel (lock to lock), security of the column adjustor	<i>X</i>			<i>RA</i>
13	Check	Secondary steering system for operation	<i>X</i>			<i>RA</i>
14	Check	Park lights, headlights, spot lights, indicators, brake lights, internal cab light, reverse alarm, reverse camera & rotating beacon	<i>X</i>			<i>RA</i>
15	Check	Operation of AM / FM radio & UHF radio	<i>X</i>			<i>RA</i>
16	Check	Operation of E-Stops engine shutdown switch	<i>X</i>			<i>RA</i>
17	Check	Wipers & Washers		<i>X</i>		<i>RA</i>
18	Check	Fire extinguisher for safety ties, gauge in green, rotate a couple of times & tap bottom to release sediment				

RUNNING CHECKS

No.	ACTION	CHECKS	S	US	N/A	Initial
19	Check	The general driving characteristics of the grader	<i>X</i>			<i>RA</i>
20	Check	For excessive exhaust smoke or abnormal noises / vibrations	<i>X</i>			<i>RA</i>
21	Test	Operation of automatic transmission kick down, lock-up & neutral inhibitor switch	<i>X</i>			<i>RA</i>
22	Inspect	Service brake operation / adjustment	<i>X</i>			<i>RA</i>

23	Check	Brake accumulator test (Apply & release service brake pedal and release the service brake pedal for a minimum of three applications, until alert indicator) if indicator doesn't illuminate refer to OEM Manual	X			RA
24	Check	Park brake operation (test on a 10° slope)	X			RA
25	Check	For brake drag	X			RA
26	Check	Blade float control	X			RA
27	Check	Steer king pins, steering / wheel lean, articulation, ripper cylinder pins & bushes for excessive movement (less than 2mm of movement)	X			RA
28	Check	Steering, wheel lean, blade lift, blade tilt, articulation, ripper cylinders for leaks, damage to the cylinder rod.	X			RA
29	Check	For wear in blade slide wear strips, lift cylinder socket cups, centre shift cylinder sockets, centre shift lock bar pin & bush		X		RA
30	Check GET	Blade cutting edges, moldboard end wear strips & damage to moldboard, check ripper tynes for security & ripper boots	X			RA
31	Check	Wear strips on top of circle & underneath circle, inspect circle drive teeth & for leaks from pinion on circle drive motor		X		RA
32	Check	Clearances of circle, for up & down movement in blade circle & oscillation movement in circle (check that it turns freely & centrally to circle)		X		RA
33	Check	A" Frame Ball clearance		X		RA
34	Check	Oscillating movement & excess movement in pivot shaft of both tandems		X		RA
35	Check	All wheel bearings for movement by lifting machine		X		RA
36	Check	Using scan tool check for fault codes				
37	Check	DPF / DET Status & conduct a manual burn if required				

FRAME & BODY

Park on level ground, Isolate generator, Fit body prop, Relieve all pressures, Start from front right hand side and work clockwise around generator checking each item below

No.	ACTION	CHECKS	S	US	N/A	Initial
38	Check	ROP's for security & integrity	X			RA
39	Check	Bonnet mounts, operation of bonnet tilt struts / locking mechanism	X			RA
40	Check	For external body damage / security of bonnet to main body, Check hinged doors / panels / sliding doors for correct operation & locking	X			RA
41	Check	Rear vision mirrors & brackets for condition & operation	X			RA
42	Inspect	Steering column mounting & universal joints for movement & grease penetration			X	RA
43	Check	Steps & handrails for security	X			RA
44	Check	Mudguards, mudflaps for condition & security			X	RA
45	Check	For metal fatigue in chassis, goose neck & tow hitch	X			RA
46	Inspect	All hydraulic hoses for signs of rubbing, leaks & deterioration	X			RA
47	Check / Clean	Battery box, mountings, signs of corrosion, terminal security & condition, cables & electrolyte levels	X			RA
48	Inspect	All air lines, valves / fittings for air leaks & chaffing				
49	Inspect	All grease lines & fittings for damage / security & grease penetration				
50	Inspect	Electrical harness / junction boxes for chaffing & dust sealing				
51	Inspect	Tow hitch / pin				
52	Check	Hazard warning / component location Decals	X			RA

UNDER BONNET / ENGINE BAY

No.	ACTION	CHECKS	S	US	N/A	Initial
53	Inspect	Exhaust manifolds / covers, bolts, turbo, piping for any leaks & security				
54	Inspect / Tighten	Air induction boxes / hoses / piping / fittings for damage, clamps for tension & presence of dusting				
55	Inspect	Fuel pump / pipes / hoses / clamps, for leakage & movement				

56	Inspect	Engine for oil leaks & damaged hoses				
57	Check	Engine mounts for wear & security				
58	Check	Water pump "tell tail" for leakage or blockage & check bearing for movement				
59	Check	Alternator pulley, mountings, bearings & idler pulleys	X			RA
60	Inspect	Air Conditioner compressor pulley, mountings, hose connections for leakage & movement	X			RA
61	Inspect	Fan, alternator, air conditioner belts for cracking / unusual wear				
62	Inspect	Fan blades for cracks, wear, damage & security				
63	Check	Radiator mountings, coolant leakage & air flow through radiator (Clean when required)				
64	Inspect	Coolant, heater hoses, clamps for condition, leaks & tension				
65	Inspect	Electrical harnesses / connections for damage & security				
66	Inspect	Engine bay is free of combustible materials i.e. leaves, sticks & rags for prevention of fire hazards				
67	Clean	Vibration dampener, idler, A/C & alternator pulleys for dust build up				

POWER TRAIN & AXLES

No.	ACTION	CHECKS										S	US	N/A	Initial
68	Inspect	Transmission & hydraulic pump pipes, hoses, clamps for tension & oil leaks													
69	Inspect	Transmission & hydraulic pump mountings & security													
70	Inspect	Drive universal joints for movement & grease penetration													
71	Inspect	Wheel rims for damage, cracks, missing or loose wheel nuts													
72	Check	For oil leaks on pivot shafts & wheel ends, damage & cracks, listen for excess chain slap on both tandems drives													
73	Inspect	Tyres for damage, tread depth & pressure													
74	Depth	P2:	8	mm	P4:	25	mm	P6:	16	mm		X			RA
		P1:	20	mm	P3:	14	mm	P5:	13	mm					
75	Damage	P2:	Minor		P4:	Nil		P6:	Nil			X			RA
		P1:	Gash tread		P3:	Minor		P5:	Nil						
76	Pressure	P2:		psi	P4:		psi	P6:		psi			X		RA
		P1:		psi	P3:		psi	P5:		psi					

2000 / 2500 HOUR SERVICE

Check / Change & Adjust

No.	ACTION	CHECKS										S	US	N/A	Initial
77		Cylinder 1		Cylinder 2		Cylinder 3		Cylinder 4		Cylinder 5		Cylinder 6			
	Intake														
	Exhaust														
78	Measure	Brake Material Thickness												X	RA
		P2:			P4:			P6:							
		P1:			P3:			P5:							
79	Check	Glow Plugs for power & conduct a continuity test on each plug												X	RA
80	Check	Using a Coolant Test Strip & compare to chart, change if necessary												X	RA
81	Check	Tandem Drive Chain Check, Refer to OEM Specifications												X	RA

EVERY 3 YEARS

82	Check	Replacement date seat belt	Last Installed Date:					RA
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LUBRICATION SCHEDULE

EVERY SERVICE

1	Lubricate	All grease points:			
250 HOUR SERVICE					
2	SOS	Engine Oil:			
500 Hour Service					
3	SOS	Hydraulic Oil:		Transmission / Diff Oil:	
		Front Wheel Bearing Oil:		All Wheel Drive Oil:	
		LHS Tandem Oil:		RHS Tandem Oil:	
4	Change	Engine Oil:			
5	Change Filters	Engine Oil (Cut/Inspect):		Outer Air Filter:	
		Fuel / Water Separator:		Secondary Fuel:	
		Hydraulic Tank Return:		Hydraulic Impl Control:	
6	Inspect / Change	Secondary Air Filters:		Signs of Dusting Y / N:	
7	Inspect / Clean	Air Cleaner Dust Bowl:		Fuel Tank Cap & Strainer:	
8	Inspect / Clean / Change	Engine Breather:		Tandem Breathers:	
9	Check / Top up	Engine Oil:		Transmission / Diff Oil:	
		Hydraulic Oil:		Both Tandems:	
		Front Wheel Bearing Oil:		Circle Drive:	
		Coolant:			
1000 HOUR SERVICE					
10	SOS	Coolant:		Hydraulic Oil:	
11	Change	Transmission / Diff Oil:			
12	Change Filters	Transmission / Diff:		All Wheel Drive Oil:	
13	Clean	Transmission / Diff screen:			
14	Inspect / Clean	Transmission / Diff screen:			
2000 Hour Service					
15	Change	Tandem Drive Oil:		Circle Drive Oil:	
		Front Wheel Bearing Oil:		Coolant (on SOS):	
		Gear Oil (All Wheel Drive):			
16	Change Filters	Inner Air:			
6000 Hour Service					
17	Change	Hydraulic Oil (on SOS):			
AFTER EVERY SERVICE					
18	Check	All fluid levels & Correct Running operation of Grader			
DEFECTS / COMENTS & PARTS TO BE ORDERED					
1	LHS door seal needs replacing				
17	Rear wiper washer hose has come off inside the cab and wetting the floor				
29	All sockets need adjustment, blade slides need adjustment				
32	Circle clearances need adjustment				
33	"A" Frame ball clearances need adjustment				
34	Articulation cylinder pins and bushes have minor movement in them				
35	RHS front bearing needs adjustment				
30	Retaining bolt in LHS Top Ripper frame pivot pin on chasis side missing				



GRADER SERVICING SCHEDULE

Date: 18.02.25
Unit Number: LR434
Rego Number: XV27TB
Service Type: 500 hrs
Kilometres: _____
Hours: 7,023

Serial No: N9M00457
Mechanic: Amanda
Mechanic: Isaac
Serviceman: _____
Operator: _____
Spotter: _____

INSPECTION SCHEDULE

EVERY SERVICE

The following inspections require having the engine running or machine moving. Use of an operator and spotter may be required.

IN CAB

No.	ACTION	CHECKS	S	US	N/A	Initial
1	Inspect	Door latches & seals, smoke bomb cab (if necessary)	<i>x</i>			<i>AH</i>
2	Inspect	Seat belt for damage, fraying & anchor bolt security	<i>x</i>			<i>AH</i>
3	Check	Seat for correct operation, excessive movement, cover & cushion condition	<i>x</i>			<i>AH</i>
4	Check	Windscreen & other glass in the cab for chips or cracks	<i>x</i>			<i>AH</i>
5	Check	Operation of window winders & door handles	<i>x</i>			<i>AH</i>
6	Check	Operation of air conditioner & heater	<i>x</i>			<i>AH</i>
7	Check	Pedal rubbers are on & in good condition	<i>x</i>			<i>AH</i>
8	Check	For breakdown triangles, condition & complete set	<i>x</i>			<i>AH</i>
9	Check	For a first aid kit, in date & complete	<i>x</i>			<i>AH</i>
10	Check	Operation of ignition & security of key, instrument cluster, warning alarms, warning indicator lights & horn	<i>x</i>			<i>AH</i>
11	Check	Steering column adjustment & security	<i>x</i>			<i>AH</i>
12	Check	Operation of steering wheel (lock to lock), security of the column adjustor			<i>x</i>	<i>AH</i>
13	Check	Secondary steering system for operation	<i>x</i>			<i>AH</i>
14	Check	Park lights, headlights, spot lights, indicators, brake lights, internal cab light, reverse alarm, reverse camera & rotating beacon	<i>x</i>			<i>AH</i>
15	Check	Operation of AM / FM radio & UHF radio	<i>x</i>			<i>AH</i>
16	Check	Operation of E-Stops engine shutdown switch	<i>x</i>			<i>AH</i>
17	Check	Wipers & Washers	<i>x</i>			<i>AH</i>
18	Check	Fire extinguisher for safety ties, gauge in green, rotate a couple of times & tap bottom to release sediment	<i>x</i>			<i>AH</i>

RUNNING CHECKS

No.	ACTION	CHECKS	S	US	N/A	Initial
19	Check	The general driving characteristics of the grader	<i>x</i>			<i>AH</i>
20	Check	For excessive exhaust smoke or abnormal noises / vibrations	<i>x</i>			<i>AH</i>
21	Test	Operation of automatic transmission kick down, lock-up & neutral inhibitor switch	<i>x</i>			<i>AH</i>
22	Inspect	Service brake operation / adjustment	<i>x</i>			<i>AH</i>
23	Check	Brake accumulator test (Apply & release service brake pedal and release the service brake pedal for a minimum of three applications, until alert indicator) if indicator doesn't illuminate refer to OEM Manual	<i>x</i>			<i>AH</i>

24	Check	Park brake operation (test on a 10° slope)	x			AH
25	Check	For brake drag	x			AH
26	Check	Blade float control	x			AH
27	Check	Steer king pins, steering / wheel lean, articulation, ripper cylinder pins & bushes for excessive movement (less than 2mm of movement)	x			IA
28	Check	Steering, wheel lean, blade lift, blade tilt, articulation, ripper cylinders for leaks, damage to the cylinder rod.	x			IA
29	Check	For wear in blade slide wear strips, lift cylinder socket cups, centre shift cylinder sockets, centre shift lock bar pin & bush	x			IA
30	Check GET	Blade cutting edges, moldboard end wear strips & damage to moldboard, check ripper tynes for security & ripper boots	x			IA
31	Check	Wear strips on top of circle & underneath circle, inspect circle drive teeth & for leaks from pinion on circle drive motor	x			IA
32	Check	Clearances of circle, for up & down movement in blade circle & oscillation movement in circle (check that it turns freely & centrally to circle)	x			AH
33	Check	A" Frame Ball clearance	x			IA
34	Check	Oscillating movement & excess movement in pivot shaft of both tandems	x			IA
35	Check	All wheel bearings for movement by lifting machine	x			AH
36	Check	Using scan tool check for fault codes	x			AH
37	Check	DPF / DET Status & conduct a manual burn if required	x			AH
FRAME & BODY						
<i>Park on level ground, Isolate generator, Fit body prop, Relieve all pressures, Start from front right hand side and work clockwise around generator checking each item below</i>						
No.	ACTION	CHECKS	S	US	N/A	Initial
38	Check	ROP's for security & integrity	x			AH
39	Check	Bonnet mounts, operation of bonnet tilt struts / locking mechanism	x			IA
40	Check	For external body damage / security of bonnet to main body, Check hinged doors / panels / sliding doors for correct operation & locking	x			AH
41	Check	Rear vision mirrors & brackets for condition & operation	x			AH
42	Inspect	Steering column mounting & universal joints for movement & grease penetration			x	AH
43	Check	Steps & handrails for security	x			AH
44	Check	Mudguards, mudflaps for condition & security	x			AH
45	Check	For metal fatigue in chassis, goose neck & tow hitch	x			AH
46	Inspect	All hydraulic hoses for signs of rubbing, leaks & deterioration	x			IA
47	Check / Clean	Battery box, mountings, signs of corrosion, terminal security & condition, cables & electrolyte levels	x			IA
48	Inspect	All air lines, valves / fittings for air leaks & chaffing	x			IA
49	Inspect	All grease lines & fittings for damage / security & grease penetration	x			AH
50	Inspect	Electrical harness / junction boxes for chaffing & dust sealing	x			IA
51	Inspect	Tow hitch / pin	x			IA
52	Check	Hazard warning / component location Decals	x			AH
UNDER BONNET / ENGINE BAY						
No.	ACTION	CHECKS	S	US	N/A	Initial
53	Inspect	Exhaust manifolds / covers, bolts, turbo, piping for any leaks & security	x			AH
54	Inspect / Tighten	Air induction boxes / hoses / piping / fittings for damage, clamps for tension & presence of dusting	x			AH
55	Inspect	Fuel pump / pipes / hoses / clamps, for leakage & movement	x			AH
56	Inspect	Engine for oil leaks & damaged hoses	x			AH
57	Check	Engine mounts for wear & security	x			AH
58	Check	Water pump "tell tail" for leakage or blockage & check bearing for movement	x			AH
59	Check	Alternator pulley, mountings, bearings & idler pulleys	x			AH

60	Inspect	Air Conditioner compressor pulley, mountings, hose connections for leakage & movement						x			AH			
61	Inspect	Fan, alternator, air conditioner belts for cracking / unusual wear						x			AH			
62	Inspect	Fan blades for cracks, wear, damage & security						x			AH			
63	Check	Radiator mountings, coolant leakage & air flow through radiator (Clean when required)						x			AH			
64	Inspect	Coolant, heater hoses, clamps for condition, leaks & tension						x			AH			
65	Inspect	Electrical harnesses / connections for damage & security						x			AH			
66	Inspect	Engine bay is free of combustible materials i.e. leaves, sticks & rags for prevention of fire hazards						x			AH			
67	Clean	Vibration dampener, idler, A/C & alternator pulleys for dust build up						x			AH			
POWER TRAIN & AXLES														
No.	ACTION	CHECKS						S	US	N/A	Initial			
68	Inspect	Transmission & hydraulic pump pipes, hoses, clamps for tension & oil leaks						x			IA			
69	Inspect	Transmission & hydraulic pump mountings & security						x			IA			
70	Inspect	Drive universal joints for movement & grease penetration						x			IA			
71	Inspect	Wheel rims for damage, cracks, missing or loose wheel nuts						x			IA			
72	Check	For oil leaks on pivot shafts & wheel ends, damage & cracks, listen for excess chain slap on both tandems drives						x			IA			
73	Inspect	Tyres for damage, tread depth & pressure												
74	Depth	P2:	28	mm	P4:	5	mm	P6:	3	mm		x		AH
		P1:	25	mm	P3:	20	mm	P5:	3	mm				
75	Damage	P2:			P4:	Flat/bald		P6:	flat/bald			x		AH
		P1:			P3:			P5:	bald					
76	Pressure	P2:	45	psi	P4:	40	psi	P6:	0	psi				
		P1:	45	psi	P3:	30	psi	P5:	45	psi				
2000 / 2500 HOUR SERVICE														
Check / Change & Adjust														
No.	ACTION	CHECKS						S	US	N/A	Initial			
77		Cylinder 1	Cylinder 2	Cylinder 3	Cylinder 4	Cylinder 5	Cylinder 6							
	Intake													
	Exhaust													
78	Measure	Brake Material Thickness												
		P2:		P4:		P6:								
		P1:		P3:		P5:								
79	Check	Glow Plugs for power & conduct a continuity test on each plug												
80	Check	Using a Coolant Test Strip & compare to chart, change if necessary												
81	Check	Tandem Drive Chain Check, Refer to OEM Specifications												
EVERY 3 YEARS														
82	Check	Replacement date seat belt				Last Installed Date:								
LUBRICATION SCHEDULE														
EVERY SERVICE														
1	Lubricate	All grease points:									AH			
250 HOUR SERVICE														
2	SOS	Engine Oil:									AH			
500 Hour Service														
		Hydraulic Oil:				AH	Transmission / Diff Oil:			AH				

[illegible]

[illegible]

SERVICE COMPLETION DECLARATION

Amanda Hanslow

20.02.25

Ahanslow

**ABR REPAIRS**

TAX INVOICE

Linct Group
Attention: Steve Fazzino
Factory 7 2-4 Purton Rd
PAKENHAM VIC 3810
AUSTRALIA

Invoice Date
23 Nov 2021

Invoice Number
INV-0742

Reference
LR434 - 03.10.2021

ABN
64 095 772 919

ABR Repairs Pty Ltd
PO Box 324
TUMBY BAY SA 5605
abrrepairs01@gmail.com

Description	Quantity	Unit Price	GST	Amount AUD
LR434 - CAT 140M				
4000 Hour Service and Inspection				
Running checks and inspect grader	36.50	110.00	10%	4,015.00
Conduct 4000hour service				
Travel to Whyalla to pick up parts				
Adjust circle				
A frame ball adjustment				
Diagnose wiring fault with headlights				
Subtotal				4,015.00
TOTAL GST 10%				401.50
TOTAL AUD				4,416.50



Due Date: 7 Dec 2021

To pay via EFT
Commonwealth Bank
BSB: 062-093
ACC: 10010690
Description - Invoice Number

PAYMENT ADVICE

To: ABR Repairs Pty Ltd
PO Box 324
TUMBY BAY SA 5605
abrrepairs01@gmail.com

Customer Linct Group
Invoice Number INV-0742
Amount Due 4,416.50
Due Date 7 Dec 2021
Amount Enclosed

Enter the amount you are paying above

**ABR REPAIRS****GRADER SERVICING SCHEDULE**

Date: 3-10-21
 Unit Number: LR 434
 Rego Number: _____
 Service Type: 4000 HR
 Kilometres: _____
 Hours: 3925

Mechanic: 2nd Term
 Mechanic: R. Arnsby
 Serviceman: _____
 Operator: _____
 Spotter: _____

INSPECTION SCHEDULE**EVERY SERVICE**

The following inspections require having the engine running or machine moving. Use of an operator and spotter may be required.

IN CAB

No.	ACTION	CHECKS	S	US	N/A	Initial
1	Inspect	Door latches & seals, smoke bomb cab (if necessary)	/			22
2	Inspect	Seat belt for damage, fraying & anchor bolt security	/			22
3	Check	Seat for correct operation, excessive movement, cover & cushion condition	/			22
4	Check	Windscreen & other glass in the cab for chips or cracks	/			22
5	Check	Operation of window winders & door handles	/			22
6	Check	Operation of air conditioner & heater	/			22
7	Check	Pedal rubbers are on & in good condition	/			22
8	Check	For breakdown triangles, condition & complete set			/	22
9	Check	For a first aid kit, in date & complete			/	22
10	Check	Operation of ignition & security of key, instrument cluster, warning alarms, warning indicator lights & horn	/			22
11	Check	Steering column adjustment & security			/	22
12	Check	Operation of steering wheel (lock to lock), security of the column adjustor			/	22
13	Check	Secondary steering system for operation				
14	Check	Park lights, headlights, spot lights, indicators, brake lights, internal cab light, reverse alarm, reverse camera & rotating beacon	/	/		22
15	Check	Operation of AM / FM radio & UHF radio	/			22
16	Check	Operation of E-Stops enging shutdown switch	/			22
17	Check	Wipers & Washers	/			22
18	Check	Fire extinguisher for safety ties, gauge in green, rotate a couple of times & tap bottom to release sediment			/	22

RUNNING CHECKS

19	Check	The general driving characteristics of the grader	/			22
20	Check	For excessive exhaust smoke or abnormal noises / vibrations	/			22
21	Test	Operation of automatic transmission kick down, lock-up & neutral inhibitor switch			/	22
22	Inspect	Service brake operation / adjustment	/			22

No.	ACTION	CHECKS	S	US	N/A	Initial
23	Check	Brake accumulator test (Apply & release service brake pedal and release the	/			23
24	Check	Park brake operation (test on a 10° slope)	/			24
25	Check	For brake drag	/			25
26	Check	Blade float control	✓			26
27	Check	Steer king pins, steering / wheel lean, articulation, ripper cylinder pins & bushes for excessive movment (less than 2mm of movement)	/			27
28	Check	Steering, wheel lean, blade lift, blade tilt, articulation, ripper cylinders for leaks, damage to the cylinder rod.	/			28
29	Check	For wear in blade slide wear strips, lift cylinder socket cups, centre shift cylinder sockets, centre shift lock bar pin & bush	✓			29
30	Check GET	Blade cutting edges, moldboard end wear strips & damage to mold board, check ripper tynes for security & ripper boots	✓			30
31	Check	Wear strips on top of circle & underneath circle, inspect circle drive teeth & for leaks from pinion on circle drive motor	✓			31
32	Check	Clearances of circle, for up & down movement in blade circle & oscillation	✓			32
33	Check	Oscillating movement & excess movement in pivot shaft of both tandems	✓			33
34	Check	All wheel bearings for movement by lifting machine	✓			34
35	Check	Using scan tool check for fault codes	✓			35
36	Check	DPF / DET Status & conduct a manual burn if required	/			36

FRAME & BODY

Park on level ground, Isolate generator, Fit body prop, Relieve all pressures, Start from front right hand side and work

No.	ACTION	CHECKS	S	US	N/A	Initial
37	Check	ROP's for security & integrity	/			37
38	Check	Bonnet mounts, operation of bonnet tilt struts / locking mechanism	/			38
39	Check	For external body damage / security of bonnet to main body, Check hinged	/			39
40	Check	Rear vision mirrors & brackets for condition & operation	/			40
41	Inspect	Steering column mounting & universal joints for movement & grease	/			41
42	Check	Steps & handrails for security	/			42
43	Check	Mudguards, mudflaps for condition & security	/			43
44	Check	For metal fatigue in chassis, goose neck & tow hitch	/			44
45	Inspect	All hydraulic hoses for signs of rubbing, leaks & deterioration	/			45
46	Check / Clean	Battery box, mountings, signs of corrosion, terminal security & condition, cables & electrolyte levels	/			46
47	Inspect	All air lines, valves / fittings for air leaks & chaffing	/			47
48	Inspect	All grease lines & fittings for damage / security & grease penetration	/			48
49	Inspect	Electrical harness / junction boxes for chaffing & dust sealing	/			49
50	Inspect	Tow hitch / pin	/			50
51	Check	Hazard warning / component location Decals	/			51

UNDER BONNET / ENGINE BAY

No.	ACTION	CHECKS	S	US	N/A	Initial
52	Inspect	Exhaust manifolds / covers, bolts, turbo, piping for any leaks & security	/			52
53	Inspect / Tighten	Air induction boxes / hoses / piping / fittings for damage, clamps for tension & presence of dusting	/			53
54	Inspect	Fuel pump / pipes / hoses / clamps, for leakage & movement	/			54
55	Inspect	Engine for oil leaks & damaged hoses	/			55
56	Check	Engine mounts for wear & security	/			56

No.	ACTION	CHECKS	S	US	N/A	Initial
57	Check	Water pump "tell tail" for leakage or blockage & check bearing for movement	✓			RA
58	Check	Alternator pulley, mountings, bearings & idler pulleys	✓			RA
60	Inspect	Air Conditioner compressor pulley, mountings, hose connections for leakage	✓			RA
61	Inspect	Fan, alternator, air conditioner belts for cracking / unusual wear	✓			RA
62	Inspect	Fan blades for cracks, wear, damage & security	✓			RA
63	Check	Radiator mountings, coolant leakage & air flow through radiator (Clean	✓			RA
64	Inspect	Coolant, heater hoses, clamps for condition, leaks & tension	✓			RA
65	Inspect	Electrical harnesses / connections for damage & security	✓			RA
66	Inspect	Engine bay is free of combustible materials i.e. leaves, sticks & rags for	✓			RA
67	Clean	Vibration dampener, idler, A/C & alternator pulleys for dust build up	✓			RA

POWER TRAIN & AXLES

No.	ACTION	CHECKS	S	US	N/A	Initial
68	Inspect	Transmission & hydraulic pump pipes, hoses, clamps for tension & oil leaks	✓			RA
69	Inspect	Transmission & hydraulic pump mountings & security	✓			RA
70	Inspect	Drive universal joint for movement & grease penetration	✓			RA
71	Inspect	Wheel rims for damage, cracks, missing or loose wheel nuts	✓			RA
72	Check	For oil leaks on pivot shafts & wheel ends, damage & cracks, listen for excess chain slap on both tandem drives	✓			RA
73	Inspect	Tyres for damage, tread depth & pressure				
74	Depth	P2: 16mm P4: 22mm P6: 19mm P1: 16mm P3: 22mm P5: 19mm	✓			RA
75	Damage	P2: 0 P4: 0 P6: 0 P1: 0 P3: 0 P5: 0	✓			RA
76	Pressure	P2: 63 psi P4: 54 psi P6: 60 psi P1: 59 psi P3: 58 psi P5: 59 psi			✓	RA

2000 / 2500 HOUR SERVICE

Check / Change & Adjust

No.	ACTION	CHECKS	S	US	N/A	Initial
		Cylinder 1 Cylinder 2 Cylinder 3 Cylinder 4 Cylinder 5 Cylinder 6				RA
77	Intake	0.015 0.015 0.015 0.015 0.015 0.015				RA
	Exhaust	0.025 0.025 0.025 0.025 0.025 0.025				RA
78	Measure	Brake P1: P2: P3: P4:			✓	RA
79	Check	Glow Plugs for power & conduct a continuity test on each plug	✓		✓	RA
80	Check	Using a Coolant Test Strip & compare to chart, change if necessary	✓			RA

EVERY 3 YEARS

81	Check	Replacement date seat belt	Last Installed Date:			
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LUBRICATION SCHEDULE

EVERY SERVICE

1	Lubricate	All grease points:			
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250 HOUR SERVICE

2	SOS	Engine Oil:			
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500 Hour Service					
3	SOS	Hydraulic Oil:	☒	Transmission / Diff Oil:	☒
4	Change	Engine Oil:	☒		
5	Change Filters	Engine Oil (Cut/Inspect):	☒	Outer Air Filter:	☒
		Fuel / Water Separator:	☒	Secondary Fuel:	☒
		Hydraulic Tank Return:	☒	Hydraulic Imp Control:	☒
6	Inspect / Change	Secondary Air Filters:	☒	Signs of Dusting Y / N:	N
7	Inspect / Clean	Air Cleaner Dust Bowl:	☒	Fuel Tank Cap & Strainer:	☒
8	Inspect / Clean / Change	Engine Breather:	☒	Tandem Breathers:	☒
9	Check / Top up	Engine Oil:	☒	Transmission / Diff Oil:	☒
		Hydraulic Oil:	☒	Both Tandems:	☒
		Front Wheel Bearing Oil:	☒	Circlce Drive:	☒
		Coolant:	☒		

1000 HOUR SERVICE					
10	SOS	LHS Tandem:	RA	RHS Tandem:	RA
		Front Wheel Bearings:	RA	Coolant:	RA
11	Change	Transmission / Diff Oil:	RA		
12	Change Filters	Transmission:	RA		
13	Inspect / Clean	Transmission / Diff screen:	RA		

14	SOS	Coolant:			
15	Change	Tandem Drive Oil:		Circle Drive Oil:	
		Front Wheel Bearing Oil:		Coolant (on SOS):	
16	Change Filters	Inner Air:			

17	Change	Hydraulic Oil (on SOS):			
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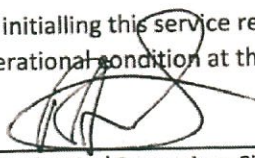
18	Check	All fluid levels & Correct Running operation of Grader	
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6 Heater works but NO AC
14 Front heat light w/s Belt dr. Groosneck Harness broken wire some wires
No central air not happy

DEFECTS / COMENTS & PARTS TO BE ORDERED

SERVIC COMPLETION DECLARATION

On signing / initialling this service report you deem that this service has been thoroughly completed. The equipment is in a safe and operational condition at the time of inspection / service.


Mechanic / Supervisor Signature

ROBERT ANGUS
Name of Mechanic / Supervisor

17-10-21
Service Completion Date



GRADER SERVICING SCHEDULE

Date:	<u>10.03.24</u>	Serial No:	<u>N9M00457</u>
Unit Number:	<u>LR434</u>	Mechanic:	<u>Robert Arnsby</u>
Rego Number:	<u>XV-27-TB</u>	Mechanic:	<u>Harry Parker</u>
Service Type:	<u>2000hr</u>	Serviceman:	
Kilometres:		Operator:	
Hours:	<u>6,064</u>	Spotter:	

INSPECTION SCHEDULE

EVERY SERVICE

The following inspections require having the engine running or machine moving. Use of an operator and spotter may be required.

IN CAB

No.	ACTION	CHECKS	S	US	N/A	Initial
1	Inspect	Door latches & seals, smoke bomb cab (if necessary)		X		RA
2	Inspect	Seat belt for damage, fraying & anchor bolt security	X			RA
3	Check	Seat for correct operation, excessive movement, cover & cushion condition	X			RA
4	Check	Windscreen & other glass in the cab for chips or cracks	X			RA
5	Check	Operation of window winders & door handles	X			RA
6	Check	Operation of air conditioner & heater	X			RA
7	Check	Pedal rubbers are on & in good condition	X			RA
8	Check	For breakdown triangles, condition & complete set	X			RA
9	Check	For a first aid kit, in date & complete	X			RA
10	Check	Operation of ignition & security of key, instrument cluster, warning alarms, warning indicator lights & horn	X			RA
11	Check	Steering column adjustment & security	X			RA
12	Check	Operation of steering wheel (lock to lock), security of the column adjustor	X			RA
13	Check	Secondary steering system for operation	X			RA
14	Check	Park lights, headlights, spot lights, indicators, brake lights, internal cab light, reverse alarm, reverse camera & rotating beacon	X			RA
15	Check	Operation of AM / FM radio & UHF radio	X			RA
16	Check	Operation of E-Stops engine shutdown switch		X		RA
17	Check	Wipers & Washers	X			RA
18	Check	Fire extinguisher for safety ties, gauge in green, rotate a couple of times & tap bottom to release sediment		X		RA

RUNNING CHECKS

No.	ACTION	CHECKS	S	US	N/A	Initial
19	Check	The general driving characteristics of the grader	X			RA
20	Check	For excessive exhaust smoke or abnormal noises / vibrations	X			RA
21	Test	Operation of automatic transmission kick down, lock-up & neutral inhibitor switch	X			RA
22	Inspect	Service brake operation / adjustment	X			RA

23	Check	Brake accumulator test (Apply & release service brake pedal and release the service brake pedal for a minimum of three applications, until alert indicator) if indicator doesn't illuminate refer to OEM Manual	X			RA
24	Check	Park brake operation (test on a 10° slope)	X			RA
25	Check	For brake drag	X			RA
26	Check	Blade float control	X			RA
27	Check	Steer king pins, steering / wheel lean, articulation, ripper cylinder pins & bushes for excessive movement (less than 2mm of movement)	X			HP
28	Check	Steering, wheel lean, blade lift, blade tilt, articulation, ripper cylinders for leaks, damage to the cylinder rod.	X			HP
29	Check	For wear in blade slide wear strips, lift cylinder socket cups, centre shift cylinder sockets, centre shift lock bar pin & bush		X		HP
30	Check GET	Blade cutting edges, moldboard end wear strips & damage to moldboard, check ripper tynes for security & ripper boots		X		HP
31	Check	Wear strips on top of circle & underneath circle, inspect circle drive teeth & for leaks from pinion on circle drive motor		X		HP
32	Check	Clearances of circle, for up & down movement in blade circle & oscillation movement in circle (check that it turns freely & centrally to circle)		X		HP
33	Check	A" Frame Ball clearance	X			HP
34	Check	Oscillating movement & excess movement in pivot shaft of both tandems	X			HP
35	Check	All wheel bearings for movement by lifting machine	X			HP
36	Check	Using scan tool check for fault codes	X			HP
37	Check	DPF / DET Status & conduct a manual burn if required	X			HP

FRAME & BODY

Park on level ground, Isolate generator, Fit body prop, Relieve all pressures, Start from front right hand side and work clockwise around generator checking each item below

No.	ACTION	CHECKS	S	US	N/A	Initial
38	Check	ROP's for security & integrity	X			RA
39	Check	Bonnet mounts, operation of bonnet tilt struts / locking mechanism	X			RA
40	Check	For external body damage / security of bonnet to main body, Check hinged doors / panels / sliding doors for correct operation & locking		X		RA
41	Check	Rear vision mirrors & brackets for condition & operation	X			RA
42	Inspect	Steering column mounting & universal joints for movement & grease penetration			X	RA
43	Check	Steps & handrails for security	X			RA
44	Check	Mudguards, mudflaps for condition & security			X	HP
45	Check	For metal fatigue in chassis, goose neck & tow hitch	X			HP
46	Inspect	All hydraulic hoses for signs of rubbing, leaks & deterioration	X			HP
47	Check / Clean	Battery box, mountings, signs of corrosion, terminal security & condition, cables & electrolyte levels	X			HP
48	Inspect	All air lines, valves / fittings for air leaks & chaffing			X	HP
49	Inspect	All grease lines & fittings for damage / security & grease penetration	X			HP
50	Inspect	Electrical harness / junction boxes for chaffing & dust sealing	X			HP
51	Inspect	Tow hitch / pin	X			HP
52	Check	Hazard warning / component location Decals	X			HP

UNDER BONNET / ENGINE BAY

No.	ACTION	CHECKS	S	US	N/A	Initial
53	Inspect	Exhaust manifolds / covers, bolts, turbo, piping for any leaks & security				
54	Inspect / Tighten	Air induction boxes / hoses / piping / fittings for damage, clamps for tension & presence of dusting				
55	Inspect	Fuel pump / pipes / hoses / clamps, for leakage & movement				

56	Inspect	Engine for oil leaks & damaged hoses													
57	Check	Engine mounts for wear & security													
58	Check	Water pump "tell tail" for leakage or blockage & check bearing for movement													
59	Check	Alternator pulley, mountings, bearings & idler pulleys													
60	Inspect	Air Conditioner compressor pulley, mountings, hose connections for leakage & movement													
61	Inspect	Fan, alternator, air conditioner belts for cracking / unusual wear													
62	Inspect	Fan blades for cracks, wear, damage & security													
63	Check	Radiator mountings, coolant leakage & air flow through radiator (Clean when required)													
64	Inspect	Coolant, heater hoses, clamps for condition, leaks & tension													
65	Inspect	Electrical harnesses / connections for damage & security													
66	Inspect	Engine bay is free of combustible materials i.e. leaves, sticks & rags for prevention of fire hazards													
67	Clean	Vibration dampener, idler, A/C & alternator pulleys for dust build up													
POWER TRAIN & AXLES															
No.	ACTION	CHECKS										S	US	N/A	Initial
68	Inspect	Transmission & hydraulic pump pipes, hoses, clamps for tension & oil leaks													
69	Inspect	Transmission & hydraulic pump mountings & security													
70	Inspect	Drive universal joints for movement & grease penetration													
71	Inspect	Wheel rims for damage, cracks, missing or loose wheel nuts													
72	Check	For oil leaks on pivot shafts & wheel ends, damage & cracks, listen for excess chain slap on both tandems drives													
73	Inspect	Tyres for damage, tread depth & pressure													
74	Depth	P2:		mm	P4:		mm	P6:		mm					
		P1:		mm	P3:		mm	P5:		mm					
75	Damage	P2:			P4:			P6:							
		P1:			P3:			P5:							
76	Pressure	P2:		psi	P4:		psi	P6:		psi					
		P1:		psi	P3:		psi	P5:		psi					
2000 / 2500 HOUR SERVICE															
Check / Change & Adjust															
No.	ACTION	CHECKS										S	US	N/A	Initial
77		Cylinder 1	Cylinder 2	Cylinder 3	Cylinder 4	Cylinder 5	Cylinder 6								
	Intake														
	Exhaust														
78	Measure	Brake Material Thickness													
		P2:			P4:			P6:							
		P1:			P3:			P5:							
79	Check	Glow Plugs for power & conduct a continuity test on each plug													
80	Check	Using a Coolant Test Strip & compare to chart, change if necessary													
81	Check	Tandem Drive Chain Check, Refer to OEM Specifications													
EVERY 3 YEARS															
82	Check	Replacement date seat belt					Last Installed Date:								
LUBRICATION SCHEDULE															
EVERY SERVICE															

1	Lubricate	All grease points:			
250 HOUR SERVICE					
2	SOS	Engine Oil:	HP		
500 Hour Service					
3	SOS	Hydraulic Oil:	RA	Transmission / Diff Oil:	RA
		Front Wheel Bearing Oil:		All Wheel Drive Oil:	
		LHS Tandem Oil:	RA	RHS Tandem Oil:	RA
4	Change	Engine Oil:			
5	Change Filters	Engine Oil (Cut/Inspect):		Outer Air Filter:	
		Fuel / Water Separator:		Secondary Fuel:	
		Hydraulic Tank Return:		Hydraulic Impl Control:	
6	Inspect / Change	Secondary Air Filters:		Signs of Dusting Y / N:	
7	Inspect / Clean	Air Cleaner Dust Bowl:		Fuel Tank Cap & Strainer:	
8	Inspect / Clean / Change	Engine Breather:		Tandem Breathers:	
9	Check / Top up	Engine Oil:		Transmission / Diff Oil:	
		Hydraulic Oil:		Both Tandems:	
		Front Wheel Bearing Oil:		Circle Drive:	
		Coolant:			
1000 HOUR SERVICE					
10	SOS	Coolant:		Hydraulic Oil:	RA
11	Change	Transmission / Diff Oil:			
12	Change Filters	Transmission / Diff:		All Wheel Drive Oil:	
13	Clean	Transmission / Diff screen:			
14	Inspect / Clean	Transmission / Diff screen:			
2000 Hour Service					
15	Change	Tandem Drive Oil:		Circle Drive Oil:	
		Front Wheel Bearing Oil:		Coolant (on SOS):	
		Gear Oil (All Wheel Drive):			
16	Change Filters	Inner Air:			
6000 Hour Service					
17	Change	Hydraulic Oil (on SOS):			
AFTER EVERY SERVICE					
18	Check	All fluid levels & Correct Running operation of Grader			
DEFECTS / COMENTS & PARTS TO BE ORDERED					
1	LHS door seal needs replacing				
16	E-Stops not working				
18	Fire extinguisher tag missing				
29	Lift and centre shift cups need adjusting				
30	Cutting edge needs replacing - replaced				
31	Circle wear strips need adjusting - adjusted				
32	Circle clearance adjustment				



GRADER SERVICING SCHEDULE

Date:	<i>16.11.24</i>	Serial No:	N9M00457
Unit Number:	<i>LR434</i>	Mechanic:	<i>R. Arnsby</i>
Rego Number:	<i>XV27TB</i>	Mechanic:	<i>J. Van Puyenbroek</i>
Service Type:	<i>500</i>	Serviceman:	
Kilometres:		Operator:	
Hours:	<i>6,717</i>	Spotter:	

INSPECTION SCHEDULE

EVERY SERVICE

The following inspections require having the engine running or machine moving. Use of an operator and spotter may be required.

IN CAB

No.	ACTION	CHECKS	S	US	N/A	Initial
1	Inspect	Door latches & seals, smoke bomb cab (if necessary)	<i>X</i>			<i>RA</i>
2	Inspect	Seat belt for damage, fraying & anchor bolt security	<i>X</i>			<i>RA</i>
3	Check	Seat for correct operation, excessive movement, cover & cushion condition	<i>X</i>			<i>RA</i>
4	Check	Windscreen & other glass in the cab for chips or cracks		<i>X</i>		<i>RA</i>
5	Check	Operation of window winders & door handles	<i>X</i>			<i>RA</i>
6	Check	Operation of air conditioner & heater	<i>X</i>			<i>RA</i>
7	Check	Pedal rubbers are on & in good condition	<i>X</i>			<i>RA</i>
8	Check	For breakdown triangles, condition & complete set			<i>X</i>	<i>RA</i>
9	Check	For a first aid kit, in date & complete	<i>X</i>			<i>RA</i>
10	Check	Operation of ignition & security of key, instrument cluster, warning alarms, warning indicator lights & horn	<i>X</i>			<i>RA</i>
11	Check	Steering column adjustment & security	<i>X</i>			<i>RA</i>
12	Check	Operation of steering wheel (lock to lock), security of the column adjustor	<i>X</i>			<i>RA</i>
13	Check	Secondary steering system for operation	<i>X</i>			<i>RA</i>
14	Check	Park lights, headlights, spot lights, indicators, brake lights, internal cab light, reverse alarm, reverse camera & rotating beacon	<i>X</i>			<i>JVP</i>
15	Check	Operation of AM / FM radio & UHF radio	<i>X</i>			<i>RA</i>
16	Check	Operation of E-Stops engine shutdown switch	<i>X</i>			<i>RA</i>
17	Check	Wipers & Washers	<i>X</i>			<i>RA</i>
18	Check	Fire extinguisher for safety ties, gauge in green, rotate a couple of times & tap bottom to release sediment	<i>X</i>			<i>RA</i>

RUNNING CHECKS

No.	ACTION	CHECKS	S	US	N/A	Initial
19	Check	The general driving characteristics of the grader	<i>X</i>			<i>RA</i>
20	Check	For excessive exhaust smoke or abnormal noises / vibrations	<i>X</i>			<i>RA</i>
21	Test	Operation of automatic transmission kick down, lock-up & neutral inhibitor switch	<i>X</i>			<i>RA</i>
22	Inspect	Service brake operation / adjustment	<i>X</i>			<i>RA</i>

23	Check	Brake accumulator test (Apply & release service brake pedal and release the service brake pedal for a minimum of three applications, until alert indicator) if indicator doesn't illuminate refer to OEM Manual	X			RA
24	Check	Park brake operation (test on a 10° slope)	X			RA
25	Check	For brake drag	X			RA
26	Check	Blade float control	X			RA
27	Check	Steer king pins, steering / wheel lean, articulation, ripper cylinder pins & bushes for excessive movement (less than 2mm of movement)	X			JVP
28	Check	Steering, wheel lean, blade lift, blade tilt, articulation, ripper cylinders for leaks, damage to the cylinder rod.	X			JVP
29	Check	For wear in blade slide wear strips, lift cylinder socket cups, centre shift cylinder sockets, centre shift lock bar pin & bush		X		JVP
30	Check GET	Blade cutting edges, moldboard end wear strips & damage to moldboard, check ripper tynes for security & ripper boots	X			JVP
31	Check	Wear strips on top of circle & underneath circle, inspect circle drive teeth & for leaks from pinion on circle drive motor		X		JVP
32	Check	Clearances of circle, for up & down movement in blade circle & oscillation movement in circle (check that it turns freely & centrally to circle)	X			JVP
33	Check	A" Frame Ball clearance	X			JVP
34	Check	Oscillating movement & excess movement in pivot shaft of both tandems	X			JVP
35	Check	All wheel bearings for movement by lifting machine	X			JVP
36	Check	Using scan tool check for fault codes	X			RA
37	Check	DPF / DET Status & conduct a manual burn if required	X			RA

FRAME & BODY

Park on level ground, Isolate generator, Fit body prop, Relieve all pressures, Start from front right hand side and work clockwise around generator checking each item below

No.	ACTION	CHECKS	S	US	N/A	Initial
38	Check	ROP's for security & integrity	X			RA
39	Check	Bonnet mounts, operation of bonnet tilt struts / locking mechanism	X			RA
40	Check	For external body damage / security of bonnet to main body, Check hinged doors / panels / sliding doors for correct operation & locking	X			JVP
41	Check	Rear vision mirrors & brackets for condition & operation	X			JVP
42	Inspect	Steering column mounting & universal joints for movement & grease penetration	X			JVP
43	Check	Steps & handrails for security	X			JVP
44	Check	Mudguards, mudflaps for condition & security	X			JVP
45	Check	For metal fatigue in chassis, goose neck & tow hitch	X			JVP
46	Inspect	All hydraulic hoses for signs of rubbing, leaks & deterioration	X			JVP
47	Check / Clean	Battery box, mountings, signs of corrosion, terminal security & condition, cables & electrolyte levels	X			JVP
48	Inspect	All air lines, valves / fittings for air leaks & chaffing			X	JVP
49	Inspect	All grease lines & fittings for damage / security & grease penetration	X			RA
50	Inspect	Electrical harness / junction boxes for chaffing & dust sealing	X			RA
51	Inspect	Tow hitch / pin	X			RA
52	Check	Hazard warning / component location Decals	X			RA

UNDER BONNET / ENGINE BAY

No.	ACTION	CHECKS	S	US	N/A	Initial
53	Inspect	Exhaust manifolds / covers, bolts, turbo, piping for any leaks & security	X			JVP
54	Inspect / Tighten	Air induction boxes / hoses / piping / fittings for damage, clamps for tension & presence of dusting	X			JVP
55	Inspect	Fuel pump / pipes / hoses / clamps, for leakage & movement	X			JVP

56	Inspect	Engine for oil leaks & damaged hoses	X			JVP
57	Check	Engine mounts for wear & security	X			JVP
58	Check	Water pump "tell tail" for leakage or blockage & check bearing for movement	X			JVP
59	Check	Alternator pulley, mountings, bearings & idler pulleys	X			JVP
60	Inspect	Air Conditioner compressor pulley, mountings, hose connections for leakage & movement	X			JVP
61	Inspect	Fan, alternator, air conditioner belts for cracking / unusual wear	X			JVP
62	Inspect	Fan blades for cracks, wear, damage & security	X			JVP
63	Check	Radiator mountings, coolant leakage & air flow through radiator (Clean when required)	X			JVP
64	Inspect	Coolant, heater hoses, clamps for condition, leaks & tension	X			JVP
65	Inspect	Electrical harnesses / connections for damage & security	X			JVP
66	Inspect	Engine bay is free of combustible materials i.e. leaves, sticks & rags for prevention of fire hazards	X			JVP
67	Clean	Vibration dampener, idler, A/C & alternator pulleys for dust build up	X			JVP

POWER TRAIN & AXLES

No.	ACTION	CHECKS										S	US	N/A	Initial
68	Inspect	Transmission & hydraulic pump pipes, hoses, clamps for tension & oil leaks										X			RA
69	Inspect	Transmission & hydraulic pump mountings & security										X			RA
70	Inspect	Drive universal joints for movement & grease penetration										X			RA
71	Inspect	Wheel rims for damage, cracks, missing or loose wheel nuts										X			RA
72	Check	For oil leaks on pivot shafts & wheel ends, damage & cracks, listen for excess chain slap on both tandems drives										X			RA
73	Inspect	Tyres for damage, tread depth & pressure													RA
74	Depth	P2:	0	mm	P4:	5	mm	P6:	10	mm			X		RA
		P1:	0	mm	P3:	1	mm	P5:	9	mm					
75	Damage	P2:	REPLACE		P4:	NIL		P6:	NIL				X		RA
		P1:	REPLACE		P3:	REPLACE		P5:	NIL						
76	Pressure	P2:	38	psi	P4:	38	psi	P6:	44	psi		X			RA
		P1:	38	psi	P3:	42	psi	P5:	38	psi					

2000 / 2500 HOUR SERVICE

Check / Change & Adjust

No.	ACTION	CHECKS						S	US	N/A	Initial	
77		Cylinder 1	Cylinder 2	Cylinder 3	Cylinder 4	Cylinder 5	Cylinder 6					
	Intake											
	Exhaust											
78	Measure	Brake Material Thickness										
		P2:		P4:		P6:						
		P1:		P3:		P5:						
79	Check	Glow Plugs for power & conduct a continuity test on each plug										
80	Check	Using a Coolant Test Strip & compare to chart, change if necessary										
81	Check	Tandem Drive Chain Check, Refer to OEM Specifications										

EVERY 3 YEARS

82	Check	Replacement date seat belt	Last Installed Date:				
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LUBRICATION SCHEDULE

EVERY SERVICE

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ROADS, STRUCTURES & MAINTENANCE

GRADER

SERVICING SCHEDULE

Date: 17.06.25
 LR No: LR434
 Rego: VX27TB

VIN: N9M00457
 KMs/Hours: 7297
 Service Type: 250 HR

INSPECTION SCHEDULE

EVERY SERVICE

The following inspections require having the engine running or machine moving. Use of an operator and spotter may be required.

IN CAB

No.	ACTION	CHECKS	S	US	N/A	Initial
1	Inspect	Door latches & seals, smoke bomb cab (if necessary)	✓			FB
2	Inspect	Seat belt for damage, fraying & anchor bolt security	✓			FB
3	Check	Seat for correct operation, excessive movement, cover & cushion condition	✓			FB
4	Check	Windscreen & other glass in the cab for chips or cracks	✓			FB
5	Check	Operation of window winders & door handles	✓			FB
6	Check	Operation of air con & heater	✓			FB
7	Check	Pedal rubbers are on & in good condition	✓			FB
8	Check	For breakdown triangles, condition & complete set	✓			FB
9	Check	For first aid kit, in date & complete	✓			FB
10	Check	Operation of ignition & security of key, instrument cluster, warning alarms, warning indicator lights & horn	✓			AI
11	Check	Steering column adjustment & security	✓			AI
12	Check	Operation of steering wheel lock (lock to lock), security of the column adjustor	✓			AI
13	Check	Secondary steering system for operation	✓			AI
14	Check	Park lights, headlights, spot lights, indicators, brake lights, internal cab light, reverse camera & rotating beacon	✓			AI
15	Check	Operation of AM/FM radio & UHF Radio	✓			AI
16	Connect	Operation of E-Stops engine shutdown switch	✓			AI
17	Check	Wipers & Washers	✓			AI
18	Check	Fire extinguisher for safety ties, gauge in green, rotate a couple of times & tap bottom to release sediment	✓			AI

RUNNING CHECKS

No.	ACTION	CHECKS	S	US	N/A	Initial
19	Check	The general driving characteristics of the grader	✓			AI
20	Check	For excessive exhaust smoke or abnormal noises/vibrations	✓			AI
21	Test	Operation of automatic transmission kick down, lock-up & neutral inhibitor switch	✓			AI
22	Inspect	Service brake operation/adjustment	✓			AI
23	Check	Brake accumulator test (apply & release service brake pedal and release the service brake pedal for a minimum of three applications, until alert indicator) if indicator doesn't illuminate refer to OEM Manual	✓			AI
24	Check	Park brake operation (test on 10 degree slope)	✓			AI
25	Check	For brake drag	✓			AI
26	Check	Blade float control	✓			AI

27	Check	Steer king pins, steering/wheel lean, articulation, ripper cylinder pins & brushes for excessive movement (less than 2mm of movement)	✓			AI
28	Check	Steering, wheel lean, blade lift, blade tilt, articulation, ripper cylinder rod for leaks, damage to the cylinder rod	✓			AI
29	Check	For wear in blade slide wear strips, lift cylinder socket cups, centre shift cylinder sockets, centre shift lock bar pin & bush	✓			AI
30	Check	Blade Cutting edges, moldboard end wear strips & damage to moldboard, check ripper tynes for security & ripper boots	✓			AI
31	Check	Wear strips on top circle & underneath circle, inspect circle drive teeth & for leaks from pinion on circle drive motor	✓			AI
32	Check	Clearances of circle, for up & down movement in pivot shaft of both tandems	✓			AI
33	Check	A" Frame Ball clearance	✓			AI
34	Check	Oscillating movement & excess movement in pivot shaft of both tandems	✓			AI
35	Check	All wheel bearings for movement by lifting machine	✓			AI
36	Check	Using scan tool check for fault codes			✓	N/A
37	Check	DPF / DET Status & conduct a manual burn if required			✓	N/A

FRAME & BODY

Park on level ground, Isolate generator, Fit body prop, Relieve all pressures, Start from front right hand side and work clockwise around generator checking each item below

No.	ACTION	CHECKS	S	US	N/A	Initial
38	Check	ROP's for security & integrity	✓			FB
39	Check	Bonnet mounts, operation of bonnet tilt struts / locking mechanism	✓			FB
40	Check	For external body damage / security of bonnet to main body, Check hinged doors / panels / sliding doors for correct operation & locking	✓			FB
41	Check	Rear vision mirrors & brackets for condition & operation	✓			FB
42	Inspect	Steering column mounting & universal joints for movement & grease penetration	✓			FB
43	Inspect	Steps & handrails for security	✓			FB
44	Check	Mudguards, mudflaps for condition & security	✓			FB
45	Check	For metal fatigue in chassis, goose neck & tow hitch	✓			FB
46	Inspect	All hydraulic hoses for signs of rubbing, leaks & deterioration	✓			FB
47	Inspect	Battery box, mountings, signs of corrosion, terminal security & condition, cables & electrolyte levels	✓			FB
48	Inspect	All air lines, valves / fittings for air leaks & chaffing	✓			FB
49	Inspect	All grease lines & fittings for damage / security & grease penetration	✓			FB
50	Inspect	Electrical harness / junction boxes for chaffing & dust sealing	✓			FB
51	Inspect	Tow hitch / pin	✓			FB
52	Check	Hazard warning / component location Decals	✓			FB

UNDER BONNET / ENGINE BAY

No.	ACTION	CHECKS	S	US	N/A	Initial
53	Inspect	Exhaust manifolds / covers, bolts, turbo, piping for any leaks & security	✓			AI
54	Inspect	Air induction boxes / hoses / piping / fittings for damage, clamps for tension & presence of dusting	✓			AI
55	Inspect	Fuel pump / pipes / hoses / clamps, for leakage & movement	✓			AI
56	Inspect	Engine for oil leaks & damaged hoses	✓			AI
57	Check	Engine mounts for wear & security	✓			AI
58	Check	Water pump "tell tail" for leakage or blockage & check bearing for movement	✓			AI
59	Check	Alternator pulley, mountings, bearings & idler pulleys	✓			AI
60	Inspect	Air Con compressor pulley, mountings, hose connections for leakage & movement	✓			AI
61	Inspect	Fan, alternator, air conditioner belts for cracking / unusual wear	✓			AI
62	Inspect	Fan blades for cracks, wear, damage & security	✓			AI
63	Inspect	Radiator mountings, coolant leakage & air flow through radiator (Clean if required)	✓			AI
64	Inspect	Coolant, heater hoses, clamps for condition, leaks & tension	✓			AI

65	Inspect	Electrical harnesses / connections for damage & security										✓			AI
66	Inspect	Engine bay is free of combustible materials i.e. leaves, sticks & rags for prevention of fire hazards										✓			AI
67	Clean	Vibration dampener, idler, A/C & alternator pulleys for dust build up										✓			AI
POWER TRAIN & AXLES															
No.	ACTION	CHECKS										S	US	N/A	Initial
68	Inspect	Transmission & hydraulic pump pipes, hoses, clamps for tension & oil leaks										✓			FB
69	Inspect	Transmission & hydraulic pump mountings & security										✓			FB
70	Inspect	Drive universal joints for movement & grease penetration										✓			FB
71	Inspect	Wheel rims for damage, cracks, missing or loose wheel nuts										✓			FB
72	Check	For oil leaks on pivot shafts & wheel ends, damage & cracks, listen for excess chain slap on both tandems drives										✓			FB
73	Inspect	Tyres for damage, tread depth & pressure													
	Depth	P1:		mm	P2:		mm	P3:		mm	P4:		mm		
	Damage	P1:			P2:			P3:			P4:		Adjusted To		
	Pressure	P1:		psi	P2:		psi	P3:		psi	P4:		psi		
74	Inspect	All grease lines for damage / security & grease penetration													
75	Inspect	Electrical harnesses / junction boxes for chaffing & dust sealing													
2000 / 2500 HOUR SERVICE															
Check / Change or Adjust															
No.	ACTION	CHECKS										S	US	N/A	Initial
75		Cylinder 1	Cylinder 2	Cylinder 3	Cylinder 4	Cylinder 5	Cylinder 6								
	Intake														
	Exhaust														
76	Check	Jack up & check wheel bearings, adjust or replace if necessary													
77	Measure	Service Brake Wear Indicator													
		P1:		mm	P2:		mm	P3:		mm	P4:		mm		
78	Measure	Brake drums or Rotors													
		P1:		mm	P2:		mm	P3:		mm	P4:		mm		
79	Measure	Brake linings or pads													
		P1:		mm	P2:		mm	P3:		mm	P4:		mm		
80	Check	Glow Plugs for power & conduct a continuity test on each plug													
81	Check	Using a Coolant Test Strip & compare to chart, change if necessary													
82	Check	Tandem Drive Chain Check, Refer to OEM Specifications													
LUBRICATION SCHEDULE															
EVERY SERVICE															
1	Lubricate	All grease points:										✓			
250 HOUR SERVICE															
2	SOS	Engine Oil:													
500 Hour Service															
3	SOS	Hydraulic Oil:						Transmission:							
		Front Differential:						Rear Differential:							
		P1 Final Drive:						P2 Final Drive:							
3	SOS	P3 Final Drive:						P4 Final Drive:							
4	Change	Engine Oil:					✓								
5	Change Filters	Engine Oil (Cut/Inspect):					✓	Primary Air Filter:					✓		
		Fuel / Water Separator:					✓	Secondary Fuel:					✓		
6	Inspect / Change	Secondary Air Filters:					✓	Signs of Dusting Y / N:					✓		
7	Inspect / Clean	Air Cleaner Dust Bowl:					✓	Fuel Tank Strainer:					✓		
8	Inspect / Clean / Change	Engine Breather:					✓								
9	Check / Top up	Coolant:					✓								

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GRADER

SERVICING SCHEDULE

Date: 25/08/2025
LR No: LR434
Rego: _____

VIN: _____
KMs/Hours: 7566
Service Type: 500hr

INSPECTION SCHEDULE

EVERY SERVICE

The following inspections require having the engine running or machine moving. Use of an operator and spotter may be required.

IN CAB

No.	ACTION	CHECKS	S	US	N/A	Initial
1	Inspect	Door latches & seals, smoke bomb cab (if necessary)	x			
2	Inspect	Seat belt for damage, fraying & anchor bolt security	x			
3	Check	Seat for correct operation, excessive movement, cover & cushion condition	x			
4	Check	Windscreen & other glass in the cab for chips or cracks	x			
5	Check	Operation of window winders & door handles	x			
6	Check	Operation of air con & heater	x			
7	Check	Pedal rubbers are on & in good condition			x	
8	Check	For breakdown triangles, condition & complete set			x	
9	Check	For first aid kit, in date & complete	x			
10	Check	Operation of ignition & security of key, instrument cluster, warning alarms, warning indicator lights & horn	x			
11	Check	Steering column adjustment & security	x			
12	Check	Operation of steering wheel lock (lock to lock), security of the column adjustor	x			
13	Check	Secondary steering system for operation	x			
14	Check	Park lights, headlights, spot lights, indicators, brake lights, internal cab light, reverse camera & rotating beacon	x			
15	Check	Operation of AM/FM radio & UHF Radio	x			
16	Connect	Operation of E-Stops engine shutdown switch	x			
17	Check	Wipers & Washers	x			
18	Check	Fire extinguisher for safety ties, gauge in green, rotate a couple of times & tap bottom to release sediment	x			

RUNNING CHECKS

No.	ACTION	CHECKS	S	US	N/A	Initial
19	Check	The general driving characteristics of the grader	x			
20	Check	For excessive exhaust smoke or abnormal noises/vibrations	x			
21	Test	Operation of automatic transmission kick down, lock-up & neutral inhibitor switch			x	
22	Inspect	Service brake operation/adjustment	x			
23	Check	Brake accumulator test (apply & release service brake pedal and release the service brake pedal for a minimum of three applications, until alert indicator) if indicator doesn't illuminate refer to OEM Manual	x			
24	Check	Park brake operation (test on 10 degree slope)	x			
25	Check	For brake drag			x	
26	Check	Blade float control	x			

27	Check	Steer king pins, steering/wheel lean, articulation, ripper cylinder pins & brushes for excessive movement (less than 2mm of movement)	x			
28	Check	Steering, wheel lean, blade lift, blade tilt, articulation, ripper cylinder for leaks, damage to the cylinder rod	x			
29	Check	For wear in blade slide wear strips, lift cylinder socket cups, centre shift cylinder sockets, centre shift lock bar pin & bush	x			
30	Check	Blade Cutting edges, moldboard end wear strips & damage to moldboard, check ripper tynes for security & ripper boots	x			
31	Check	Wear strips on top circle & underneath circle, inspect circle drive teeth & for leaks from pinion on circle drive motor	x			
32	Check	Clearances of circle, for up & down movement in pivot shaft of both tandems	x			
33	Check	A" Frame Ball clearance	x			
34	Check	Oscillating movement & excess movement in pivot shaft of both tandems	x			
35	Check	All wheel bearings for movement by lifting machine	x			
36	Check	Using scan tool check for fault codes			x	
37	Check	DPF / DET Status & conduct a manual burn if required			x	

FRAME & BODY

Park on level ground, Isolate generator, Fit body prop, Relieve all pressures, Start from front right hand side and work clockwise around generator checking each item below

No.	ACTION	CHECKS	S	US	N/A	Initial
38	Check	ROP's for security & integrity	x			
39	Check	Bonnet mounts, operation of bonnet tilt struts / locking mechanism	x			
40	Check	For external body damage / security of bonnet to main body, Check hinged doors / panels / sliding doors for correct operation & locking	x			
41	Check	Rear vision mirrors & brackets for condition & operation	x			
42	Inspect	Steering column mounting & universal joints for movement & grease penetration	x			
43	Inspect	Steps & handrails for security	x			
44	Check	Mudguards, mudflaps for condition & security			x	
45	Check	For metal fatigue in chassis, goose neck & tow hitch	x			
46	Inspect	All hydraulic hoses for signs of rubbing, leaks & deterioration	x			
47	Inspect	Battery box, mountings, signs of corrosion, terminal security & condition, cables & electrolyte levels	x			
48	Inspect	All air lines, valves / fittings for air leaks & chaffing	x			
49	Inspect	All grease lines & fittings for damage / security & grease penetration	x			
50	Inspect	Electrical harness / junction boxes for chaffing & dust sealing	x			
51	Inspect	Tow hitch / pin	x			
52	Check	Hazard warning / component location Decals	x			

UNDER BONNET / ENGINE BAY

No.	ACTION	CHECKS	S	US	N/A	Initial
53	Inspect	Exhaust manifolds / covers, bolts, turbo, piping for any leaks & security	x			
54	Inspect	Air induction boxes / hoses / piping / fittings for damage, clamps for tension & presence of dusting	x			
55	Inspect	Fuel pump / pipes / hoses / clamps, for leakage & movement	x			
56	Inspect	Engine for oil leaks & damaged hoses	x			
57	Check	Engine mounts for wear & security	x			
58	Check	Water pump "tell tail" for leakage or blockage & check bearing for movement	x			
59	Check	Alternator pulley, mountings, bearings & idler pulleys	x			
60	Inspect	Air Con compressor pulley, mountings, hose connections for leakage & movement	x			
61	Inspect	Fan, alternator, air conditioner belts for cracking / unusual wear	x			
62	Inspect	Fan blades for cracks, wear, damage & security	x			
63	Inspect	Radiator mountings, coolant leakage & air flow through radiator (Clean if required)	x			
64	Inspect	Coolant, heater hoses, clamps for condition, leaks & tension	x			

65	Inspect	Electrical harnesses / connections for damage & security								x			
66	Inspect	Engine bay is free of combustible materials i.e. leaves, sticks & rags for prevention of fire hazards								x			
67	Clean	Vibration dampener, idler, A/C & alternator pulleys for dust build up								x			
POWER TRAIN & AXLES													
No.	ACTION	CHECKS								S	US	N/A	Initial
68	Inspect	Transmission & hydraulic pump pipes, hoses, clamps for tension & oil leaks								x			
69	Inspect	Transmission & hydraulic pump mountings & security								x			
70	Inspect	Drive universal joints for movement & grease penetration								x			
71	Inspect	Wheel rims for damage, cracks, missing or loose wheel nuts								x			
72	Check	For oil leaks on pivot shafts & wheel ends, damage & cracks, listen for excess chain slap on both tandems drives								x			
73	Inspect	Tyres for damage, tread depth & pressure											
	Depth	P1:		mm	P2:		mm	P3:		mm	P4:		mm
	Damage	P1:			P2:			P3:			P4:		Adjusted To
	Pressure	P1:		psi	P2:		psi	P3:		psi	P4:		psi
74	Inspect	All grease lines for damage / security & grease penetration								x			
75	Inspect	Electrical harnesses / junction boxes for chaffing & dust sealing								x			
2000 / 2500 HOUR SERVICE													
Check / Change or Adjust													
No.	ACTION	CHECKS								S	US	N/A	Initial
75		Cylinder 1	Cylinder 2	Cylinder 3	Cylinder 4	Cylinder 5	Cylinder 6						
	Intake												
	Exhaust												
76	Check	Jack up & check wheel bearings, adjust or replace if necessary										x	
77	Measure	Service Brake Wear Indicator											
		P1:		mm	P2:		mm	P3:		mm	P4:		mm
78	Measure	Brake drums or Rotors											
		P1:		mm	P2:		mm	P3:		mm	P4:		mm
79	Measure	Brake linings or pads											
		P1:		mm	P2:		mm	P3:		mm	P4:		mm
80	Check	Glow Plugs for power & conduct a continuity test on each plug										x	
81	Check	Using a Coolant Test Strip & compare to chart, change if necessary										x	
82	Check	Tandem Drive Chain Check, Refer to OEM Specifications								x			
LUBRICATION SCHEDULE													
EVERY SERVICE													
1	Lubricate	All grease points:											
250 HOUR SERVICE													
2	SOS	Engine Oil:											
500 Hour Service													
3	SOS	Hydraulic Oil:								Transmission:			
		Front Differential:				x				Rear Differential:			
		P1 Final Drive:								P2 Final Drive:			
3	SOS	P3 Final Drive:								P4 Final Drive:			
4	Change	Engine Oil:				x							
5	Change Filters	Engine Oil (Cut/Inspect):								Primary Air Filter:		x	
		Fuel / Water Separator:				x				Secondary Fuel:		x	
6	Inspect / Change	Secondary Air Filters:								Signs of Dusting Y / N:			
7	Inspect / Clean	Air Cleaner Dust Bowl:								Fuel Tank Strainer:			
8	Inspect / Clean / Change	Engine Breather:											
9	Check / Top up	Coolant:											

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GRADER

SERVICING SCHEDULE

Date: 03.02.26
LR No: LR434
Rego: XV27TB

VIN: CAT0140MWN9M00457
KMs/Hours: 778hrs
Service Type: Remote/bush 250hr

INSPECTION SCHEDULE

EVERY SERVICE

The following inspections require having the engine running or machine moving. Use of an operator and spotter may be required.

IN CAB

No.	ACTION	CHECKS	S	US	N/A	Initial
1	Inspect	Door latches & seals, smoke bomb cab (if necessary)		x		md
2	Inspect	Seat belt for damage, fraying & anchor bolt security	x			md
3	Check	Seat for correct operation, excessive movement, cover & cushion condition	x			md
4	Check	Windscreen & other glass in the cab for chips or cracks		x		md
5	Check	Operation of window winders & door handles		x		md
6	Check	Operation of air con & heater		x		md
7	Check	Pedal rubbers are on & in good condition	x			md
8	Check	For breakdown triangles, condition & complete set			x	md
9	Check	For first aid kit, in date & complete	x			md
10	Check	Operation of ignition & security of key, instrument cluster, warning alarms, warning indicator lights & horn	x			md
11	Check	Steering column adjustment & security	x			md
12	Check	Operation of steering wheel lock (lock to lock), security of the column adjustor	x			md
13	Check	Secondary steering system for operation	x			md
14	Check	Park lights, headlights, spot lights, indicators, brake lights, internal cab light, reverse camera & rotating beacon	x			md
15	Check	Operation of AM/FM radio & UHF Radio	x			md
16	Connect	Operation of E-Stops engine shutdown switch	x			md
17	Check	Wipers & Washers		x		md
18	Check	Fire extinguisher for safety ties, gauge in green, rotate a couple of times & tap bottom to release sediment	x			md

RUNNING CHECKS

No.	ACTION	CHECKS	S	US	N/A	Initial
19	Check	The general driving characteristics of the grader	x			md
20	Check	For excessive exhaust smoke or abnormal noises/vibrations	x			md
21	Test	Operation of automatic transmission kick down, lock-up & neutral inhibitor switch	x			md
22	Inspect	Service brake operation/adjustment	x			md
23	Check	Brake accumulator test (apply & release service brake pedal and release the service brake pedal for a minimum of three applications, until alert indicator) if indicator doesn't illuminate refer to OEM Manual	x			md
24	Check	Park brake operation (test on 10 degree slope)	x			md
25	Check	For brake drag	x			md
26	Check	Blade float control	x			md

27	Check	Steer king pins, steering/wheel lean, articulation, ripper cylinder pins & brushes for excessive movement (less than 2mm of movement)	x			md
28	Check	Steering, wheel lean, blade lift, blade tilt, articulation, ripper cylinder for leaks, damage to the cylinder rod	x			md
29	Check	For wear in blade slide wear strips, lift cylinder socket cups, centre shift cylinder sockets, centre shift lock bar pin & bush		x		md
30	Check	Blade Cutting edges, moldboard end wear strips & damage to moldboard, check ripper tynes for security & ripper boots		x		md
31	Check	Wear strips on top circle & underneath circle, inspect circle drive teeth & for leaks from pinion on circle drive motor		x		md
32	Check	Clearances of circle, for up & down movement in pivot shaft of both tandems		x		md
33	Check	A" Frame Ball clearance	x			md
34	Check	Oscillating movement & excess movement in pivot shaft of both tandems	x			md
35	Check	All wheel bearings for movement by lifting machine	x			md
36	Check	Using scan tool check for fault codes			x	md
37	Check	DPF / DET Status & conduct a manual burn if required			x	md

FRAME & BODY

Park on level ground, Isolate generator, Fit body prop, Relieve all pressures, Start from front right hand side and work clockwise around generator checking each item below

No.	ACTION	CHECKS	S	US	N/A	Initial
38	Check	ROP's for security & integrity	x			md
39	Check	Bonnet mounts, operation of bonnet tilt struts / locking mechanism	x			md
40	Check	For external body damage / security of bonnet to main body, Check hinged doors / panels / sliding doors for correct operation & locking	x			md
41	Check	Rear vision mirrors & brackets for condition & operation	x			md
42	Inspect	Steering column mounting & universal joints for movement & grease penetration	x			md
43	Inspect	Steps & handrails for security	x			md
44	Check	Mudguards, mudflaps for condition & security	x			md
45	Check	For metal fatigue in chassis, goose neck & tow hitch	x			md
46	Inspect	All hydraulic hoses for signs of rubbing, leaks & deterioration		x		md
47	Inspect	Battery box, mountings, signs of corrosion, terminal security & condition, cables & electrolyte levels	x			md
48	Inspect	All air lines, valves / fittings for air leaks & chaffing	x			md
49	Inspect	All grease lines & fittings for damage / security & grease penetration	x			md
50	Inspect	Electrical harness / junction boxes for chaffing & dust sealing	x			md
51	Inspect	Tow hitch / pin			x	md
52	Check	Hazard warning / component location Decals	x			md

UNDER BONNET / ENGINE BAY

No.	ACTION	CHECKS	S	US	N/A	Initial
53	Inspect	Exhaust manifolds / covers, bolts, turbo, piping for any leaks & security	x			md
54	Inspect	Air induction boxes / hoses / piping / fittings for damage, clamps for tension & presence of dusting	x			md
55	Inspect	Fuel pump / pipes / hoses / clamps, for leakage & movement	x			md
56	Inspect	Engine for oil leaks & damaged hoses	x			md
57	Check	Engine mounts for wear & security	x			md
58	Check	Water pump "tell tail" for leakage or blockage & check bearing for movement	x			md
59	Check	Alternator pulley, mountings, bearings & idler pulleys	x			md
60	Inspect	Air Con compressor pulley, mountings, hose connections for leakage & movement		x		md
61	Inspect	Fan, alternator, air conditioner belts for cracking / unusual wear	x			md
62	Inspect	Fan blades for cracks, wear, damage & security	x			md
63	Inspect	Radiator mountings, coolant leakage & air flow through radiator (Clean if required)	x			md
64	Inspect	Coolant, heater hoses, clamps for condition, leaks & tension	x			md

65	Inspect	Electrical harnesses / connections for damage & security								x			md
66	Inspect	Engine bay is free of combustible materials i.e. leaves, sticks & rags for prevention of fire hazards								x			md
67	Clean	Vibration dampener, idler, A/C & alternator pulleys for dust build up									x		md
POWER TRAIN & AXLES													
No.	ACTION	CHECKS								S	US	N/A	Initial
68	Inspect	Transmission & hydraulic pump pipes, hoses, clamps for tension & oil leaks								x			md
69	Inspect	Transmission & hydraulic pump mountings & security								x			md
70	Inspect	Drive universal joints for movement & grease penetration								x			md
71	Inspect	Wheel rims for damage, cracks, missing or loose wheel nuts								x			md
72	Check	For oil leaks on pivot shafts & wheel ends, damage & cracks, listen for excess chain slap on both tandems drives								x			md
73	Inspect	Tyres for damage, tread depth & pressure											
	Depth	P1:		mm	P2:		mm	P3:		mm	P4:		mm
	Damage	P1:			P2:			P3:			P4:		Adjusted To
	Pressure	P1:		psi	P2:		psi	P3:		psi	P4:		psi
74	Inspect	All grease lines for damage / security & grease penetration								x			md
75	Inspect	Electrical harnesses / junction boxes for chaffing & dust sealing								x			md
2000 / 2500 HOUR SERVICE													
Check / Change or Adjust													
No.	ACTION	CHECKS								S	US	N/A	Initial
75		Cylinder 1	Cylinder 2	Cylinder 3	Cylinder 4	Cylinder 5	Cylinder 6						
	Intake										x		md
	Exhaust												
76	Check	Jack up & check wheel bearings, adjust or replace if necessary										x	md
77	Measure	Service Brake Wear Indicator											
		P1:		mm	P2:		mm	P3:		mm	P4:		mm
78	Measure	Brake drums or Rotors											
		P1:		mm	P2:		mm	P3:		mm	P4:		mm
79	Measure	Brake linings or pads											
		P1:		mm	P2:		mm	P3:		mm	P4:		mm
80	Check	Glow Plugs for power & conduct a continuity test on each plug										x	md
81	Check	Using a Coolant Test Strip & compare to chart, change if necessary										x	md
82	Check	Tandem Drive Chain Check, Refer to OEM Specifications										x	md
LUBRICATION SCHEDULE													
EVERY SERVICE													
1	Lubricate	All grease points:						x				md	
2	SOS	Engine Oil:						x				md	
500 Hour Service													
3	SOS	Hydraulic Oil:						Transmission:					
		Front Differential:						Rear Differential:					
		P1 Final Drive:						P2 Final Drive:					
3	SOS	P3 Final Drive:						P4 Final Drive:					
4	Change	Engine Oil:											
5	Change Filters	Engine Oil (Cut/Inspect):						Primary Air Filter:					
		Fuel / Water Separator:						Secondary Fuel:					
6	Inspect / Change	Secondary Air Filters:						Signs of Dusting Y / N:					
7	Inspect / Clean	Air Cleaner Dust Bowl:						Fuel Tank Strainer:					
8	Inspect / Clean / Change	Engine Breather:											
9	Check / Top up	Coolant:											

1000 Hour Service					
10	Change Filters	Hydraulic Oil:		Transmission Oil:	
2000 Hour Service					
11	SOS	Coolant:			
12	Change	Front Differential Oil:		Rear Differential Oil:	
		P1 Final Drive Oil:		P2 Final Drive Oil:	
		P3 Final Drive Oil:		P4 Final Drive Oil:	
13	Change Filters	Hydraulic Tank Breather:		Fuel Tank Cap Filter:	
		(OCV) Open Crankcase Filter:			
3000 Hour Service					
14	Change	Hydraulic Oil on SOS:			
5000 Hour Service					
15	Change	DEF Filter:		DEF Injector:	
		ARD Spark Plug:			
16	Clean	DPF:			
AFTER EVERY SERVICE					
17	Check	All fluid levels, Correct Running operation of machine			x
DEFECTS / COMENTS & PARTS TO BE ORDERED					
	(note) this was a 250hr service completed in a very remote area without all parts required to do complete repairs at the time				
	. A/C fault compressor failure (clutch)				
	window and door frame missing/ damaged				
	blade slide bushes worn. Circle drive needs adjusting, A frame cylinders need re shimming. A frame ball needs re shimming				
	Hydraulic lines wire exposed				
SERVICE COMPLETION DECLARATION					
On signing / initialling this service report you deem that this service has been thoroughly completed. The equipment is in a safe and operational condition at the time of inspection / service.					
<u>matt davis</u>		<u>03.02.26</u>			
Mechanic / Supervisor Signature		Service Completion Date			
<u>matt davis</u>					
Name of Mechanic / Supervisor					

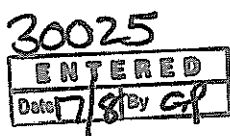
LR434.



TAX INVOICE

Linct Group

9999



Invoice Date
14 Aug 2023

Invoice Number
INV-1364

Reference
140M Grader N9M00457

ABN
71 627 726 238

Earthworks Diesel Repairs
Pty Ltd
ABN 71 627 726 238
4 Mulhalls Road
MACCLESFIELD VIC
3782
Mick@edrepairs.com.au
0407 147 882

Description	Quantity	Unit Price	GST	Amount AUD
04/05/2023, Cat 140M N9M00457 @ 5814hrs. Labour to remove transmission. Strip transmission. Strip all clutches and shafts Clean and inspect all parts. Measure all discs. Assemble all clutches with new seals. Replace one damaged friction disc on forward clutch. Replace input shaft gear and bearings. Assemble transmission. Refit to machine. Fill with new oil and calibrate.	108.00	120.00	10%	12,960.00
Transmission filter	1.00	151.79	10%	151.79
SOS	1.00	37.40	10%	37.40
Transmission Case components	1.00	310.22	10%	310.22
Trans 1st/3rd gear components	1.00	878.58	10%	878.58
Trans Park brake components	1.00	252.96	10%	252.96
Transmission seals and o rings	1.00	267.85	10%	267.85
Transmission forward/Rev Components	1.00	1,561.78	10%	1,561.78
Input shaft gear and bearings	1.00	1,452.76	10%	1,452.76
Suction screen	1.00	147.99	10%	147.99
Freight	1.00	102.30	10%	102.30
Labour to remove both tandem boxes. Remove Diff. Strip clean and inspect diff and final drives. Organize parts. Assemble diff and final drives replacing RH sun gears and bearings. Replace all 4 output shaft bearing cup and cones. Shim bearings as required. Set diff clearances. Assemble back into machine. Refit both Tandem cases.	56.00	120.00	10%	6,720.00
Sun gear drive shaft	1.00	2,046.19	10%	2,046.19
Sun gears	3.00	1,802.23	10%	5,406.69
Freight	1.00	270.60	10%	270.60

Description	Quantity	Unit Price	GST	Amount AUD
Trans hoses x5	1.00	565.08	10%	565.08
Diff and tandem components	1.00	2,979.58	10%	2,979.58
TDTO30 trans and diff oil	70.00	5.27	10%	368.90
Labour to complete 6000hr service. (note most done during other parts of the job) Test DPF level sender.	6.00	120.00	10%	720.00
Engine oil	30.00	5.00	10%	150.00
Engine oil filter	1.00	53.75	10%	53.75
Fuel filters	2.00	38.90	10%	77.80
Fuel water separator	1.00	78.35	10%	78.35
Hydraulic filter	1.00	81.92	10%	81.92
Hydraulic bypass filter	1.00	195.48	10%	195.48
Hydraulic oil	64.00	5.00	10%	320.00
Tandem oils	152.00	5.27	10%	801.04
ELC coolant	57.00	8.75	10%	498.75
AD Blue	10.00	5.51	10%	55.10
Hoses for ripper frame cylinder	2.00	157.47	10%	314.94
Hydraulic suction hose and clamps	1.00	34.32	10%	34.32
LED Strobe light	1.00	82.55	10%	82.55
Gear oil	11.00	5.67	10%	62.37
Grease	1.00	17.42	10%	17.42
Environmental / Consumables	1.00	100.00	10%	100.00
Auto elec to repair headlight wiring and check AD blue fault	1.00	780.00	10%	780.00
Wash machine before and after job.	8.00	60.00	10%	480.00
Subtotal				41,384.46
TOTAL GST 10%				4,138.48
TOTAL AUD				45,522.94

Due Date: 28 Aug 2023
 Earthworks Diesel Repairs Pty Ltd
 BSB: 013 312
 Acc No: 310793368

Thank You

Payment terms 14 days from invoice date